CLAIMS

I claim:

1. A catheter comprising:

a shaft comprising a body with a proximal portion and a distal portion, the body defining an opening from the proximal portion to the distal portion, the distal portion having an exterior dimension suitable for insertion into a body of a subject as a procedural instrument, the distal portion having an end that is beveled in a first direction across an end opening, such that a length of the shaft to a first point on the end is a first length and a length of the shaft to a second point on the end is a second length longer than the first length, a portion of the shaft including the second point defining a tip, wherein the tip comprises a material that has sufficient rigidity to penetrate an endometrial lining of a subject and sufficient flexibility to resist penetration of a uterine muscle of a subject.

- 2. The catheter of claim 1, wherein the beveled end defines an angle of 0 to 60 degrees between the end of the distal portion and the open front end.
- 3. The catheter of claim 2, wherein the beveled end defines an angle of 10 to 15 degrees between the end of the distal portion and the open front end.
- 4. The catheter of claim 1, further comprising a tapered region approximately 1.5 centimeters from the tip and the outside diameter of the shaft in the tapered region.
- 5. The catheter of claim 1, wherein the shaft defines a first axis of symmetry through the opening therethrough and a portion of the distal

portion defines a second different axis of symmetry through the opening therethrough.

- 6. The catheter of claim 5, wherein the second axis of symmetry differs by a deflection angle of 0 to 60 degrees from the first axis of symmetry.
- 7. The catheter of claim 5, wherein the second axis of symmetry differs by a deflection angle of 10 to 15 degrees from the first axis of symmetry.
- 8. The catheter of claim 6, wherein the deflection angle is in a direction opposite the first direction beveled end of the distal portion.
- 9. The catheter of claim 1, wherein an inner diameter of the tip is at least approximately 10 micrometers in size.
- 10. The catheter of claim 9, wherein the inner diameter of the tip is between approximately 400 and 500 micrometers.

11. An apparatus comprising:

a catheter body with a proximal portion and a distal portion, the distal portion having a tip and an outside diameter suitable for insertion into a body of a subject as a procedural instrument, wherein the tip comprises a material that has sufficient rigidity to penetrate an endometrial lining of a subject and sufficient flexibility to resist penetration of a uterine muscle of a subject;

the distal portion having an end beveled across an end opening; and a portion of the distal portion having a fixed axis of symmetry different than an axis of symmetry of the proximal portion.

- 12. The apparatus of claim 11, wherein the fixed axis of symmetry differs by a deflection angle of 0 to 60 degrees from the axis of symmetry of the proximal portion.
- 13 The apparatus of claim 11, wherein the fixed axis of symmetry differs by a deflection angle of 10 to 15 degrees from the axis of symmetry of the proximal portion.
- 14. The apparatus of claim 11, wherein the beveled end defines an angle of 0 to 60 degrees between the end of the distal portion and the open front end.
- 15. The apparatus of claim 14, wherein the beveled end defines an angle of 10 to 15 degrees between the end of the distal portion and the open front end.
- 16. The apparatus of claim 11, further comprising a tapered region approximately 1.5 centimeters from the tip and the outside diameter of the shaft in the tapered region is less than the outside the diameter of the shaft at a portion outside of the tapered region.
- 17. The apparatus of claim 11, wherein an inner diameter of the tip is at least approximately 10 micrometers in size.
- 18. The apparatus of claim 17, wherein the inner diameter of the tip is between approximately 400 and 500 micrometers.
 - 19. An apparatus comprising:

a catheter body with a proximal portion and a distal portion, the distal portion having an outside diameter suitable for insertion into a body of a subject as a procedural instrument wherein a portion of the catheter body comprises a material that has sufficient rigidity to penetrate a first tissue of a subject and sufficient flexibility to resist penetration of a second tissue of a subject.

- 20. The apparatus of claim 19, further comprising: at least one of a cavity and a lumen defined by the catheter body to deliver a substance to an internal portion of the body of the subject.
 - 21. The apparatus of claim 20, wherein the substance comprises: an embryo between approximately 1 and 7 days old.
- 22. The apparatus of claim 21, wherein the substance further comprises:

a culture medium.

- 23. The apparatus of claim 19, further comprising: an extraction device located at the distal portion of the catheter body, the extraction device to remove material from an internal portion of the body of the subject.
- 24. The apparatus of claim 23, wherein the extraction device comprises:

biopsy forceps.

25. The apparatus of claim 23, further comprising: a viewing device to enable viewing of at least one of the distal portion of the catheter body and the extraction device.